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Applicant(s) Application No. 10/042 098 DRERUP ET AL

A P. A. II	10/042,030	DALAGE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Erin M. File	2634	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIC of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSE or other appropriate con GHTS. This application	D in this application. If not included mmunication will be mailed in due cours	se. THIS
1. This communication is responsive to <u>1/7/2002</u> .			
2. The allowed claim(s) is/are <u>1-20</u> .			
3. The drawings filed on <u>07 January 2002</u> are accepted by the	Examiner.		
 Acknowledgment is made of a claim for foreign priority uner a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Topies of the certified copies of the priority documents have PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application to this communication to	cation No sived in this national stage application f	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail DFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Formatter in the paper No./Mail DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Formatter in the paper No./Mail Date 	Amendment / Comments Amendment / Comments A(c)) should be written a header according to 3 with of BIOLOGICAL M	on the Office action of continuous in the front (not the back of CFR 1.121(d). ATERIAL must be submitted. Note the submitted in the submitted	•
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 1/7/2002 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ⊠ Intervie Paper 3), 7. ⊠ Examin	of Informal Patent Application (PTO-152 w Summary (PTO-413), No./Mail Date <u>06032005</u> . er's Amendment/Comment er's Statement of Reasons for Allowand	

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Anthony England, Reg. No. 35,129 on June 3, 2005.

2. The application has been amended as follows:

Claim 6, The method of claim 5, wherein step d) <u>further</u> comprises the steps of: latching signals for the edge counter, including the count signal from the state machine and the detected level signal from the edge detector, responsive to the certain edge of the first clock for each cycle of logic operations; resetting the edge counter to a certain middle value during a logic cycle as indicated by the count signal of the state machine. incrementing the edge counter during the logic cycle if the count signal indicates the state machine requires counting, and the edge counter has not reached a high or low limit, and the detected level output by edge detector is high; decrementing the edge counter during the logic cycle if the count signal indicates the state machine requires counting, and the edge counter has not reached a high or low limit, and the detected level output by edge detector is low; holding the edge counter during the logic cycle if

Art Unit: 2634

the count signal indicates the state machine requires counting, and the edge counter has reached a high or low limit

Claim 7, The method of claim 3, wherein step d) further comprises the steps of: latching signals for the flip timer, including the count signal from the state machine, responsive to a certain edge of the first clock for each cycle of logic operations; resetting the flip timer to a certain starting value during a logic cycle if the count signal indicates the state machine does not require counting down; decrementing the flip timer during a logic cycle if the count signal indicates the state machine requires counting down; and holding the flip timer during a logic cycle if the count signal indicates the state machine requires counting down and the flip timer has expired.

Claim 8, The method of claim 3, wherein the second logic includes a synchronizer, and step d) <u>further</u> comprises the steps of: latching certain signals for the synchronizer, including the flip signal from the state machine, responsive to a certain edge of the second clock for each cycle of logic operations; and asserting a derived clock gate output signal for the synchronizer if the flip signal indicates that the state machine indicates a phase adjustment.

Claim 14. The apparatus of claim 12, wherein the first logic includes an edge detector. and repeatedly sampling the third clock using the first clock comprises outputing outputting by the edge detector, as a detected level signal, the state of the third clock,

Application/Control Number: 10/042,098 Page 4

Art Unit: 2634

wherein the third clock state is latched responsive to each instance of a certain edge of the first clock.

3. The following is an examiner's statement of reasons for allowance:

The detailed limitations of independent claims 1, 10, and 19, particularly the steps of detecting relative phase relations of the first and third clock signals repeatedly by the first logic circuitry; and altering the phase of the third clock signal responsive to an accumulation of the phase relation detecting, cannot be found in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erin M. File whose telephone number is (571)272-6040. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571)272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/042,098

Art Unit: 2634

Page 5

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Erin File

6/3/2005

STEPHEN CHIN
SUPERVISORY PATENT EXAMINE
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